

Message

From: Maraldo, Dean [Maraldo.Dean@epa.gov]
Sent: 6/13/2018 1:35:22 PM
To: Wroble, Amanda [wroble.amanda@epa.gov]
CC: Burdett, Cheryl [burdett.cheryl@epa.gov]; Bahr, Ryan [bahr.ryan@epa.gov]; Thompson, Robert A. [Thompson.Robert@epa.gov]; Schupp, George [schupp.george@epa.gov]; Persoon, Carolyn [persoon.carolyn@epa.gov]; Awanya, Francis [awanya.francis@epa.gov]
Subject: Re: CSD N-N Samples

Thanks Amanda. There is one sample, A2a, that was not over preserved and had a very high N compared to UNL and field test. Would it be possible to rerun that one?

I requested a copy of the method from UNL and will send it as soon as it arrives.

=====
Dean Maraldo
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From: Wroble, Amanda
Sent: Wednesday, June 13, 2018 8:08 AM
To: Maraldo, Dean
Cc: Burdett, Cheryl; Bahr, Ryan; Thompson, Robert A.; Schupp, George; Persoon, Carolyn; Awanya, Francis
Subject: RE: CSD N-N Samples

Dean,

I spoke with one of the analysts that is familiar with the NO3-NO2 analysis, and he said that the main factor that would have caused the discrepancy between CRL and University of Nebraska results was over-preservation of the samples we received at CRL. (We have previously seen issues with NH3 and NO3-NO2 results in CAFO samples that were over-preserved.) In this case, reanalysis of the existing samples wouldn't be worth it, as over-preservation would still be an issue. Resampling of the samples in question would be the better option. We would still like to take a look at the university's SOP if possible.

Thanks,
Amanda

From: Maraldo, Dean
Sent: Tuesday, June 12, 2018 3:41 PM
To: Wroble, Amanda <wroble.amanda@epa.gov>; Thompson, Robert A. <Thompson.Robert@epa.gov>
Cc: Burdett, Cheryl <burdett.cheryl@epa.gov>; Bahr, Ryan <bahr.ryan@epa.gov>
Subject: RE: CSD N-N Samples

I'll see what I can do. We also have the Hach Test strip results. I can get you the info on those to. Thanks.

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From: Wroble, Amanda
Sent: Tuesday, June 12, 2018 3:38 PM
To: Maraldo, Dean <Maraldo.Dean@epa.gov>; Thompson, Robert A. <Thompson.Robert@epa.gov>
Cc: Burdett, Cheryl <burdett.cheryl@epa.gov>; Bahr, Ryan <bahr.ryan@epa.gov>
Subject: RE: CSD N-N Samples

Dean,

Is it possible to get a copy of the SOP(s) that were used by the university and lab report just to make sure we are comparing apples to apples?

Thanks,
Amanda

Amanda Wroble, Ph.D.
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From: Maraldo, Dean
Sent: Tuesday, June 12, 2018 3:13 PM
To: Wroble, Amanda <wroble.amanda@epa.gov>; Thompson, Robert A. <Thompson.Robert@epa.gov>
Cc: Burdett, Cheryl <burdett.cheryl@epa.gov>; Bahr, Ryan <bahr.ryan@epa.gov>
Subject: CSD N-N Samples

Amanda: as discussed, please see the list of CSD sample results below. We found some discrepancies in the preliminary Nitrate_Nitrite data when compared to field results, and results from the University of Nebraska lab from the same samples (we sent split samples to Nebraska for NO3_NO2 analysis). Would it be possible to re-analyze the list of samples below for Nitrate-Nitrite, with the understanding that the hold time is exceeded?

We are trying to determine the source of the discrepancies. If you come up with any other possible reasons for the discrepancies please let us know.

| SampleID | Nitrate FieldTest (mg/l) | Univ of Nebraska NO3_NO2_N (mg/l) | CRL_Nitrate_Nitrite Preliminary Result (mg/l) | Notes |
|----------|--------------------------------|--|---|---|
| A2a | 0 | 0 | 36.9 | Discrepancy between CRL preliminary result and field and Univ of Nebraska results |
| D6a | 50 | 41.14 | 0.05 | Discrepancy between CRL preliminary result and field and Univ of Nebraska results |
| D6b | 50 | 24.537 | 0.05 | Discrepancy between CRL preliminary result and field and Univ of Nebraska results |

| | | | | |
|---------|----|--------|------|---|
| D7a | 50 | 30.701 | 0.05 | Discrepancy between CRL preliminary result and field and Univ of Nebraska results |
| D7a Dup | 50 | NA | 33.7 | CRL sig difference compared to duplicate sample |

| | | | | |
|-----|----|--------|------|---|
| D8b | 50 | 39.01 | 0.05 | Discrepancy between CRL preliminary result and field and Univ of Nebraska results |
| D9a | 20 | 30.252 | 0.05 | Discrepancy between CRL preliminary result and field and Univ of Nebraska results |

| | | | | |
|----------|----|-------|------|---|
| D10a | 20 | 8.794 | 14.3 | CRL sig difference compared to duplicate sample |
| D10a Dup | 20 | NA | 0.05 | CRL sig difference compared to duplicate sample |

| | | | | |
|----------|----|-------|------|--|
| D10b | 20 | 8.403 | 0.05 | Discrepancy between CRL preliminary result and field and Univ of Nebraska results; CRL sig difference compared to duplicate sample |
| D10b Dup | 20 | NA | 16.2 | CRL sig difference compared to duplicate sample |

| | | | | |
|-----|----|--------|------|---|
| E7a | 20 | 16.13 | 0.05 | Discrepancy between CRL preliminary result and field and Univ of Nebraska results |
| E7b | 50 | 13.811 | 0.05 | Discrepancy between CRL preliminary result and field and Univ of Nebraska results |
| E8a | 20 | 28.579 | 0.05 | Discrepancy between CRL preliminary result and field and Univ of Nebraska results |
| E8b | 50 | 21.058 | 0.05 | Discrepancy between CRL preliminary result and field and Univ of Nebraska results |
| E9a | 10 | 20.791 | 0.05 | Discrepancy between CRL preliminary result and field and Univ of Nebraska results |

Thanks,
Dean

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